

CLAIMS

1. Transfer case (1) with controllable clutch (5) for a motor vehicle, especially for a motor vehicle with part-time four-wheel drive, for distributing a driving torque coming in via a drive shaft (2) to at least two output shafts (3, 4), wherein an output shaft (4) can be connected to the drive shaft (2) via the clutch (5) and the clutch (5) can be actuated by means of an electric motor (9) and a drive converter device (10) that is arranged between the electric motor (9) and the clutch for converting a rotatory motion of the electric motor (9) into a translatory actuating motion for the clutch (5), characterized in that the electric motor (9) is designed as an induction motor.
2. Transfer case pursuant to claim 1, characterized in that the electric motor (9) is integrated into a gear wheel (7), by means of which a portion of the driving torque of the drive shaft (2) can be transferred to one of the output shafts (4).
3. Transfer case pursuant to claim 3 [sic], characterized in that a housing (25) of the electric motor (9) is designed as a mount for the gear wheel (7).
4. Transfer case pursuant to one of the claims 1 through 3, characterized in that the drive converter device (10) comprises a spindle (16) and a spindle nut (15) arranged thereon.
5. Transfer case pursuant to claim 4, characterized in that the spindle (16) is rotatably fixed and the spindle nut (15) can be rotated by means of the electric motor (9), wherein the spindle nut (15) during a closure operation of the clutch (5) has the same direction of rotation as the drive shaft (2).
6. Transfer case pursuant to claim 4, characterized in that the spindle nut (15) is rotatably fixed and the spindle (16) can be rotated by means of the electric motor (9), wherein the spindle (16) during a closure operation of the clutch (5) has the same direction of rotation as the drive shaft (2).